

# Masanobu Kano

## List of Publications by Year in descending order

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244  
papers

24,534  
citations

4955

84  
h-index

8156

148  
g-index

287  
all docs

287  
docs citations

287  
times ranked

18054  
citing authors

#	ARTICLE	IF	CITATIONS
1	Endocannabinoid-Mediated Control of Synaptic Transmission. <i>Physiological Reviews</i> , 2009, 89, 309-380.	13.1	1,262
2	Near-infrared deep brain stimulation via upconversion nanoparticle-mediated optogenetics. <i>Science</i> , 2018, 359, 679-684.	6.0	856
3	Endogenous Cannabinoids Mediate Retrograde Signals from Depolarized Postsynaptic Neurons to Presynaptic Terminals. <i>Neuron</i> , 2001, 29, 729-738.	3.8	754
4	Presynaptic Inhibition Caused by Retrograde Signal from Metabotropic Glutamate to Cannabinoid Receptors. <i>Neuron</i> , 2001, 31, 463-475.	3.8	496
5	Long-lasting depression of parallel fiber-Purkinje cell transmission induced by conjunctive stimulation of parallel fibers and climbing fibers in the cerebellar cortex. <i>Neuroscience Letters</i> , 1982, 33, 253-258.	1.0	494
6	Synaptic excitation produces a long-lasting rebound potentiation of inhibitory synaptic signals in cerebellar Purkinje cells. <i>Nature</i> , 1992, 356, 601-604.	13.7	441
7	Impaired synapse elimination during cerebellar development in PKC $\delta^3$ mutant mice. <i>Cell</i> , 1995, 83, 1223-1231.	13.5	426
8	Impaired motor coordination correlates with persistent multiple climbing fiber innervation in PKC $\delta^3$ mutant mice. <i>Cell</i> , 1995, 83, 1233-1242.	13.5	410
9	The Endocannabinoid 2-Arachidonoylglycerol Produced by Diacylglycerol Lipase $\alpha$ Mediates Retrograde Suppression of Synaptic Transmission. <i>Neuron</i> , 2010, 65, 320-327.	3.8	407
10	The CB1 Cannabinoid Receptor Is the Major Cannabinoid Receptor at Excitatory Presynaptic Sites in the Hippocampus and Cerebellum. <i>Journal of Neuroscience</i> , 2006, 26, 2991-3001.	1.7	399
11	mGluR1 in Cerebellar Purkinje Cells Essential for Long-Term Depression, Synapse Elimination, and Motor Coordination. <i>Science</i> , 2000, 288, 1832-1835.	6.0	396
12	Motor discoordination and increased susceptibility to cerebellar injury in GLAST mutant mice. <i>European Journal of Neuroscience</i> , 1998, 10, 976-988.	1.2	369
13	Subcellular Arrangement of Molecules for 2-Arachidonoyl-Glycerol-Mediated Retrograde Signaling and Its Physiological Contribution to Synaptic Modulation in the Striatum. <i>Journal of Neuroscience</i> , 2007, 27, 3663-3676.	1.7	340
14	Consensus Paper: Cerebellar Development. <i>Cerebellum</i> , 2016, 15, 789-828.	1.4	337
15	Targeted patch-clamp recordings and single-cell electroporation of unlabeled neurons in vivo. <i>Nature Methods</i> , 2008, 5, 61-67.	9.0	332
16	A Long CAG Repeat in the Mouse Sca1 Locus Replicates SCA1 Features and Reveals the Impact of Protein Solubility on Selective Neurodegeneration. <i>Neuron</i> , 2002, 34, 905-919.	3.8	320
17	Quisqualate receptors are specifically involved in cerebellar synaptic plasticity. <i>Nature</i> , 1987, 325, 276-279.	13.7	316
18	Localization of Diacylglycerol Lipase $\alpha$ around Postsynaptic Spine Suggests Close Proximity between Production Site of an Endocannabinoid, 2-Arachidonoyl-glycerol, and Presynaptic Cannabinoid CB1 Receptor. <i>Journal of Neuroscience</i> , 2006, 26, 4740-4751.	1.7	302

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19	Persistent Multiple Climbing Fiber Innervation of Cerebellar Purkinje Cells in Mice Lacking mGluR1. <i>Neuron</i> , 1997, 18, 71-79.	3.8	288
20	Phospholipase C $\beta$ 2 Serves as a Coincidence Detector through Its Ca <sup>2+</sup> Dependency for Triggering Retrograde Endocannabinoid Signal. <i>Neuron</i> , 2005, 45, 257-268.	3.8	284
21	Locally Synchronized Synaptic Inputs. <i>Science</i> , 2012, 335, 353-356.	6.0	280
22	Long-term depression of parallel fibre synapses following stimulation of climbing fibres. <i>Brain Research</i> , 1985, 342, 357-360.	1.1	273
23	Impaired Parallel Fiber-Purkinje Cell Synapse Stabilization during Cerebellar Development of Mutant Mice Lacking the Glutamate Receptor $\gamma$ 2 Subunit. <i>Journal of Neuroscience</i> , 1997, 17, 9613-9623.	1.7	271
24	Presynaptic Cannabinoid Sensitivity Is a Major Determinant of Depolarization-Induced Retrograde Suppression at Hippocampal Synapses. <i>Journal of Neuroscience</i> , 2002, 22, 3864-3872.	1.7	269
25	Impaired motor coordination and persistent multiple climbing fiber innervation of cerebellar Purkinje cells in mice lacking G $\alpha$ q. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 14089-14094.	3.3	252
26	Impairment of AMPA Receptor Function in Cerebellar Granule Cells of Ataxic Mutant Mouse <i>Stargazer</i> . <i>Journal of Neuroscience</i> , 1999, 19, 6027-6036.	1.7	245
27	Rational design of a high-affinity, fast, red calcium indicator R-CaMP2. <i>Nature Methods</i> , 2015, 12, 64-70.	9.0	234
28	Local Calcium Release in Dendritic Spines Required for Long-Term Synaptic Depression. <i>Neuron</i> , 2000, 28, 233-244.	3.8	233
29	Synaptically Driven Endocannabinoid Release Requires Ca <sup>2+</sup> -Assisted Metabotropic Glutamate Receptor Subtype 1 to Phospholipase C $\beta$ 4 Signaling Cascade in the Cerebellum. <i>Journal of Neuroscience</i> , 2005, 25, 6826-6835.	1.7	223
30	Functional Differentiation of Multiple Climbing Fiber Inputs during Synapse Elimination in the Developing Cerebellum. <i>Neuron</i> , 2003, 38, 785-796.	3.8	221
31	Two distinct classes of muscarinic action on hippocampal inhibitory synapses: M2-mediated direct suppression and M1/M3-mediated indirect suppression through endocannabinoid signalling. <i>European Journal of Neuroscience</i> , 2004, 19, 2682-2692.	1.2	220
32	Ablation of Cerebellar Golgi Cells Disrupts Synaptic Integration Involving GABA Inhibition and NMDA Receptor Activation in Motor Coordination. <i>Cell</i> , 1998, 95, 17-27.	13.5	210
33	Rational Engineering of XCaMPs, a Multicolor GECI Suite for In Vivo Imaging of Complex Brain Circuit Dynamics. <i>Cell</i> , 2019, 177, 1346-1360.e24.	13.5	199
34	Endocannabinoid-mediated retrograde modulation of synaptic transmission. <i>Current Opinion in Neurobiology</i> , 2014, 29, 1-8.	2.0	192
35	Phospholipase C $\beta$ 4 is specifically involved in climbing fiber synapse elimination in the developing cerebellum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 15724-15729.	3.3	177
36	L-Serine and glycine serve as major astroglia-derived trophic factors for cerebellar Purkinje neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 11528-11533.	3.3	175

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37	Intradendritic release of calcium induced by glutamate in cerebellar purkinje cells. <i>Neuron</i> , 1991, 7, 577-583.	3.8	166
38	Critical Period for Activity-Dependent Synapse Elimination in Developing Cerebellum. <i>Journal of Neuroscience</i> , 2000, 20, 4954-4961.	1.7	166
39	Functional labeling of neurons and their projections using the synthetic activity-dependent promoter E-SARE. <i>Nature Methods</i> , 2013, 10, 889-895.	9.0	166
40	Endocannabinoids and Synaptic Function in the CNS. <i>Neuroscientist</i> , 2007, 13, 127-137.	2.6	165
41	Presynaptic Monoacylglycerol Lipase Activity Determines Basal Endocannabinoid Tone and Terminates Retrograde Endocannabinoid Signaling in the Hippocampus. <i>Journal of Neuroscience</i> , 2007, 27, 1211-1219.	1.7	163
42	Synapse elimination in the central nervous system. <i>Current Opinion in Neurobiology</i> , 2009, 19, 154-161.	2.0	161
43	Translocation of a "Winner" Climbing Fiber to the Purkinje Cell Dendrite and Subsequent Elimination of "Losers" from the Soma in Developing Cerebellum. <i>Neuron</i> , 2009, 63, 106-118.	3.8	161
44	The Cannabinoid CB1 Receptor Mediates Retrograde Signals for Depolarization-Induced Suppression of Inhibition in Cerebellar Purkinje Cells. <i>Journal of Neuroscience</i> , 2002, 22, 1690-1697.	1.7	159
45	Distal Extension of Climbing Fiber Territory and Multiple Innervation Caused by Aberrant Wiring to Adjacent Spiny Branchlets in Cerebellar Purkinje Cells Lacking Glutamate Receptor $\hat{2}$ . <i>Journal of Neuroscience</i> , 2002, 22, 8487-8503.	1.7	159
46	<i>In vivo</i> two-photon uncaging of glutamate revealing the structure-function relationships of dendritic spines in the neocortex of adult mice. <i>Journal of Physiology</i> , 2011, 589, 2447-2457.	1.3	157
47	Cooperative endocannabinoid production by neuronal depolarization and group I metabotropic glutamate receptor activation. <i>European Journal of Neuroscience</i> , 2002, 15, 953-961.	1.2	156
48	Signaling complex formation of phospholipase $\hat{2}$ 4 with metabotropic glutamate receptor type $1\hat{1}$ and 1,4,5-trisphosphate receptor at the perisynapse and endoplasmic reticulum in the mouse brain. <i>European Journal of Neuroscience</i> , 2004, 20, 2929-2944.	1.2	156
49	Roles of Glutamate Receptor $\hat{2}$ Subunit (GluR $\hat{2}$ ) and Metabotropic Glutamate Receptor Subtype 1 (mGluR1) in Climbing Fiber Synapse Elimination during Postnatal Cerebellar Development. <i>Journal of Neuroscience</i> , 2001, 21, 9701-9712.	1.7	152
50	Postsynaptic M1 and M3 receptors are responsible for the muscarinic enhancement of retrograde endocannabinoid signalling in the hippocampus. <i>European Journal of Neuroscience</i> , 2003, 18, 109-116.	1.2	152
51	Transsynaptic Modulation of Kainate Receptor Functions by C1q-like Proteins. <i>Neuron</i> , 2016, 90, 752-767.	3.8	150
52	Angiotensin Receptor Blocker Prevented $\hat{2}$ -Amyloid-Induced Cognitive Impairment Associated With Recovery of Neurovascular Coupling. <i>Hypertension</i> , 2009, 54, 1345-1352.	1.3	144
53	Cerebellar plasticity and motor learning deficits in a copy-number variation mouse model of autism. <i>Nature Communications</i> , 2014, 5, 5586.	5.8	144
54	Potentiation of GABA-mediated currents by cAMP-dependent protein kinase. <i>NeuroReport</i> , 1992, 3, 563-566.	0.6	142

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55	Climbing fiber synapse elimination in cerebellar Purkinje cells. <i>European Journal of Neuroscience</i> , 2011, 34, 1697-1710.	1.2	137
56	P/Q-Type Ca <sup>2+</sup> Channel $\hat{\alpha}1A$ Regulates Synaptic Competition on Developing Cerebellar Purkinje Cells. <i>Journal of Neuroscience</i> , 2004, 24, 1734-1743.	1.7	134
57	Patterns of expression for the mRNA corresponding to the four isoforms of phospholipase C $\hat{\alpha}2$ in mouse brain. <i>European Journal of Neuroscience</i> , 1998, 10, 2016-2025.	1.2	132
58	Abundant distribution of TARP $\hat{\beta}$ -8 in synaptic and extrasynaptic surface of hippocampal neurons and its major role in AMPA receptor expression on spines and dendrites. <i>European Journal of Neuroscience</i> , 2006, 24, 2177-2190.	1.2	126
59	Astroglial Glutamate Transporter Deficiency Increases Synaptic Excitability and Leads to Pathological Repetitive Behaviors in Mice. <i>Neuropsychopharmacology</i> , 2015, 40, 1569-1579.	2.8	126
60	Tonic Enhancement of Endocannabinoid-Mediated Retrograde Suppression of Inhibition by Cholinergic Interneuron Activity in the Striatum. <i>Journal of Neuroscience</i> , 2007, 27, 496-506.	1.7	125
61	Endogenous cannabinoid as a retrograde messenger from depolarized postsynaptic neurons to presynaptic terminals. <i>Neuroscience Research</i> , 2001, 40, 205-210.	1.0	124
62	Weeding out bad waves: towards selective cannabinoid circuit control in epilepsy. <i>Nature Reviews Neuroscience</i> , 2015, 16, 264-277.	4.9	124
63	Plasticity of inhibitory synapses in the brain: a possible memory mechanism that has been overlooked. <i>Neuroscience Research</i> , 1995, 21, 177-182.	1.0	122
64	Corticotropin-Releasing Factor Plays a Permissive Role in Cerebellar Long-Term Depression. <i>Neuron</i> , 1999, 22, 763-775.	3.8	122
65	Ca <sup>2+</sup> -induced rebound potentiation of $\hat{A}$ -aminobutyric acid-mediated currents requires activation of Ca <sup>2+</sup> /calmodulin-dependent kinase II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 13351-13356.	3.3	121
66	A highly sensitive fluorescent indicator dye for calcium imaging of neural activity <i>in vitro</i> and <i>in vivo</i> . <i>European Journal of Neuroscience</i> , 2014, 39, 1720-1728.	1.2	120
67	Gq protein $\hat{\alpha}$ subunits G $\hat{\alpha}q$ and G $\hat{\alpha}11$ are localized at postsynaptic extra-junctional membrane of cerebellar Purkinje cells and hippocampal pyramidal cells. <i>European Journal of Neuroscience</i> , 2000, 12, 781-792.	1.2	118
68	Synapse elimination in the developing cerebellum. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 4667-4680.	2.4	118
69	Endogenous Cannabinoid Signaling through the CB1 Receptor Is Essential for Cerebellum-Dependent Discrete Motor Learning. <i>Journal of Neuroscience</i> , 2006, 26, 8829-8837.	1.7	117
70	Stimulation parameters influencing climbing fibre induced long-term depression of parallel fibre synapses. <i>Neuroscience Research</i> , 1989, 6, 264-268.	1.0	115
71	Retrograde semaphorin signaling regulates synapse elimination in the developing mouse brain. <i>Science</i> , 2014, 344, 1020-1023.	6.0	115
72	Presynaptic origin of paired-pulse depression at climbing fibre-Purkinje cell synapses in the rat cerebellum. <i>Journal of Physiology</i> , 1998, 506, 391-405.	1.3	111

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73	Deficient long-term synaptic depression in the rostral cerebellum correlated with impaired motor learning in phospholipase C $\hat{2}4$ mutant mice. <i>European Journal of Neuroscience</i> , 2001, 13, 1945-1954.	1.2	106
74	Ca <sup>2+</sup> activity at GABAB receptors constitutively promotes metabotropic glutamate signaling in the absence of GABA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16952-16957.	3.3	104
75	Postsynaptic P/Q-type Ca <sup>2+</sup> channel in Purkinje cell mediates synaptic competition and elimination in developing cerebellum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 9987-9992.	3.3	103
76	Postnatal development and synapse elimination of climbing fiber to Purkinje cell projection in the cerebellum. <i>Neuroscience Research</i> , 2005, 53, 221-228.	1.0	102
77	PSD-93 Knock-Out Mice Reveal That Neuronal MAGUKs Are Not Required for Development or Function of Parallel Fiber Synapses in Cerebellum. <i>Journal of Neuroscience</i> , 2001, 21, 3085-3091.	1.7	101
78	Type-1 metabotropic glutamate receptor in cerebellar Purkinje cells: a key molecule responsible for long-term depression, endocannabinoid signalling and synapse elimination. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008, 363, 2173-2186.	1.8	100
79	Unique inhibitory synapse with particularly rich endocannabinoid signaling machinery on pyramidal neurons in basal amygdaloid nucleus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3059-3064.	3.3	100
80	Control of synaptic function by endocannabinoid-mediated retrograde signaling. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2014, 90, 235-250.	1.6	98
81	Arc/Arg3.1 Is a Postsynaptic Mediator of Activity-Dependent Synapse Elimination in the Developing Cerebellum. <i>Neuron</i> , 2013, 78, 1024-1035.	3.8	96
82	Functional Coupling between mGluR1 and Ca <sup>v</sup> 3.1 T-Type Calcium Channels Contributes to Parallel Fiber-Induced Fast Calcium Signaling within Purkinje Cell Dendritic Spines. <i>Journal of Neuroscience</i> , 2009, 29, 9668-9682.	1.7	93
83	Retrograde BDNF to TrkB signaling promotes synapse elimination in the developing cerebellum. <i>Nature Communications</i> , 2017, 8, 195.	5.8	91
84	GABAergic Inhibition Regulates Developmental Synapse Elimination in the Cerebellum. <i>Neuron</i> , 2012, 74, 384-396.	3.8	90
85	Influence of parallel fiber–Purkinje cell synapse formation on postnatal development of climbing fiber–Purkinje cell synapses in the cerebellum. <i>Neuroscience</i> , 2009, 162, 601-611.	1.1	87
86	Depolarization-induced suppression of inhibition mediated by endocannabinoids at synapses from fast-spiking interneurons to medium spiny neurons in the striatum. <i>European Journal of Neuroscience</i> , 2006, 24, 2246-2252.	1.2	86
87	Involvement of NMDAR2A tyrosine phosphorylation in depression-related behaviour. <i>EMBO Journal</i> , 2009, 28, 3717-3729.	3.5	86
88	Spatiotemporal Dynamics of Functional Clusters of Neurons in the Mouse Motor Cortex during a Voluntary Movement. <i>Journal of Neuroscience</i> , 2013, 33, 1377-1390.	1.7	86
89	A reliable method for culture of dissociated mouse cerebellar cells enriched for Purkinje neurons. <i>Journal of Neuroscience Methods</i> , 2000, 104, 45-53.	1.3	85
90	Pharmacological evidence for the involvement of diacylglycerol lipase in depolarization-induced endocannabinoid release. <i>Neuropharmacology</i> , 2008, 54, 58-67.	2.0	83

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91	Endocannabinoids and Retrograde Modulation of Synaptic Transmission. <i>Neuroscientist</i> , 2012, 18, 119-132.	2.6	82
92	Autism spectrum disorder-like behavior caused by reduced excitatory synaptic transmission in pyramidal neurons of mouse prefrontal cortex. <i>Nature Communications</i> , 2020, 11, 5140.	5.8	82
93	Selective Activation of mTORC1 Signaling Recapitulates Microcephaly, Tuberous Sclerosis, and Neurodegenerative Diseases. <i>Cell Reports</i> , 2014, 7, 1626-1639.	2.9	80
94	A novel action of stargazin as an enhancer of AMPA receptor activity. <i>Neuroscience Research</i> , 2004, 50, 369-374.	1.0	79
95	LTD-like molecular pathways in developmental synaptic pruning. <i>Nature Neuroscience</i> , 2016, 19, 1299-1310.	7.1	79
96	TARPs $\gamma$ 2 and $\gamma$ 7 are essential for AMPA receptor expression in the cerebellum. <i>European Journal of Neuroscience</i> , 2010, 31, 2204-2220.	1.2	76
97	Molecular and Morphological Configuration for 2-Arachidonoylglycerol-Mediated Retrograde Signaling at Mossy Cell-Granule Cell Synapses in the Dentate Gyrus. <i>Journal of Neuroscience</i> , 2011, 31, 7700-7714.	1.7	75
98	Mode of induction of long-term depression at parallel fibre-Purkinje cell synapses in rabbit cerebellar cortex. <i>Neuroscience Research</i> , 1988, 5, 544-556.	1.0	74
99	Fractional calcium current through neuronal AMPA-receptor channels with a low calcium permeability. <i>Journal of Neuroscience</i> , 1996, 16, 456-466.	1.7	74
100	Distinct Roles of $\text{G}\hat{\text{A}}\text{q}$ and $\text{G}\hat{\text{A}}11$ for Purkinje Cell Signaling and Motor Behavior. <i>Journal of Neuroscience</i> , 2004, 24, 5119-5130.	1.7	74
101	$\text{Ca}^{2+}$ in Cerebellar Purkinje Cells Regulates Competitive Excitatory Synaptic Wiring, Cell Survival, and Cerebellar Biochemical Compartmentalization. <i>Journal of Neuroscience</i> , 2012, 32, 1311-1328.	1.7	74
102	$\text{Ca}^{2+}$ -assisted receptor-driven endocannabinoid release: mechanisms that associate presynaptic and postsynaptic activities. <i>Current Opinion in Neurobiology</i> , 2007, 17, 360-365.	2.0	73
103	Sparse Activity of Hippocampal Adult-Born Neurons during REM Sleep Is Necessary for Memory Consolidation. <i>Neuron</i> , 2020, 107, 552-565.e10.	3.8	73
104	Functional reorganization of adult cat somatosensory cortex is dependent on NMDA receptors. <i>NeuroReport</i> , 1991, 2, 77-80.	0.6	71
105	The Synaptic Targeting of mGluR1 by Its Carboxyl-Terminal Domain Is Crucial for Cerebellar Function. <i>Journal of Neuroscience</i> , 2014, 34, 2702-2712.	1.7	71
106	mGluR1 in cerebellar Purkinje cells is required for normal association of temporally contiguous stimuli in classical conditioning. <i>European Journal of Neuroscience</i> , 2002, 16, 2416-2424.	1.2	70
107	Impaired motor coordination in mice lacking neural recognition molecule NB-3 of the contactin/F3 subgroup. <i>Journal of Neurobiology</i> , 2003, 56, 252-265.	3.7	69
108	ORP150/HSP12A Regulates Purkinje Cell Survival: A Role for Endoplasmic Reticulum Stress in Cerebellar Development. <i>Journal of Neuroscience</i> , 2004, 24, 1486-1496.	1.7	69

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109	Disturbance of cerebellar synaptic maturation in mutant mice lacking BSRPs, a novel brain-specific receptor-like protein family. <i>FEBS Letters</i> , 2006, 580, 4057-4064.	1.3	69
110	Motor Discoordination in Mutant Mice Lacking Junctophilin Type 3. <i>Biochemical and Biophysical Research Communications</i> , 2002, 292, 318-324.	1.0	68
111	Protocadherin 17 Regulates Presynaptic Assembly in Topographic Corticobasal Ganglia Circuits. <i>Neuron</i> , 2013, 78, 839-854.	3.8	67
112	Structure-Function Relationships between Aldolase C/Zebirin II Expression and Complex Spike Synchrony in the Cerebellum. <i>Journal of Neuroscience</i> , 2015, 35, 843-852.	1.7	66
113	Territories of heterologous inputs onto Purkinje cell dendrites are segregated by mGluR1-dependent parallel fiber synapse elimination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2282-2287.	3.3	66
114	Climbing fiber synapse elimination during postnatal cerebellar development requires signal transduction involving G1±q and phospholipase C124. <i>Progress in Brain Research</i> , 2000, 124, 31-48.	0.9	64
115	Miniature Synaptic Events Elicited by Presynaptic Ca2+ Rise Are Selectively Suppressed by Cannabinoid Receptor Activation in Cerebellar Purkinje Cells. <i>Journal of Neuroscience</i> , 2006, 26, 86-95.	1.7	64
116	Serotonin rebalances cortical tuning and behavior linked to autism symptoms in 15q11-13 CNV mice. <i>Science Advances</i> , 2017, 3, e1603001.	4.7	64
117	Conditioned eyeblink learning is formed and stored without cerebellar granule cell transmission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 16690-16695.	3.3	61
118	Maintenance of presynaptic function by AMPA receptor-mediated excitatory postsynaptic activity in adult brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 19180-19185.	3.3	60
119	Crucial Roles of the Endocannabinoid 2-Arachidonoylglycerol in the Suppression of Epileptic Seizures. <i>Cell Reports</i> , 2016, 16, 1405-1415.	2.9	60
120	Multiple Phases of Climbing Fiber Synapse Elimination in the Developing Cerebellum. <i>Cerebellum</i> , 2018, 17, 722-734.	1.4	60
121	Modest Neuropsychological Deficits Caused by Reduced Noradrenaline Metabolism in Mice Heterozygous for a Mutated Tyrosine Hydroxylase Gene. <i>Journal of Neuroscience</i> , 2000, 20, 2418-2426.	1.7	59
122	Activity-Dependent Gating of Calcium Spikes by A-type K+ Channels Controls Climbing Fiber Signaling in Purkinje Cell Dendrites. <i>Neuron</i> , 2014, 84, 137-151.	3.8	59
123	Hippocampal CA3 NMDA Receptors Are Crucial for Adaptive Timing of Trace Eyeblink Conditioned Response. <i>Journal of Neuroscience</i> , 2006, 26, 1562-1570.	1.7	58
124	Junctophilin-mediated channel crosstalk essential for cerebellar synaptic plasticity. <i>EMBO Journal</i> , 2007, 26, 1924-1933.	3.5	57
125	Complementary synaptic distribution of enzymes responsible for synthesis and inactivation of the endocannabinoid 2-arachidonoylglycerol in the human hippocampus. <i>Neuroscience</i> , 2011, 174, 50-63.	1.1	55
126	Glutamate transporter GLAST controls synaptic wrapping by Bergmann glia and ensures proper wiring of Purkinje cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7438-7443.	3.3	54



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127	Effects of insulin-like growth factor I on climbing fibre synapse elimination during cerebellar development. <i>European Journal of Neuroscience</i> , 2003, 17, 545-554.	1.2	53
128	Developmental Switching of Perisomatic Innervation from Climbing Fibers to Basket Cell Fibers in Cerebellar Purkinje Cells. <i>Journal of Neuroscience</i> , 2011, 31, 16916-16927.	1.7	52
129	Endocannabinoid signalling triggered by NMDA receptor-mediated calcium entry into rat hippocampal neurons. <i>Journal of Physiology</i> , 2007, 584, 407-418.	1.3	51
130	Postsynaptic GABA <sub>B</sub> receptor signalling enhances LTD in mouse cerebellar Purkinje cells. <i>Journal of Physiology</i> , 2007, 585, 549-563.	1.3	51
131	Validation of A $\beta$ 1-40 administration into mouse cerebroventricles as an animal model for Alzheimer disease. <i>Brain Research</i> , 2009, 1280, 137-147.	1.1	51
132	Acute inhibition of diacylglycerol lipase blocks endocannabinoid-mediated retrograde signalling: evidence for on-demand biosynthesis of 2-arachidonoylglycerol. <i>Journal of Physiology</i> , 2013, 591, 4765-4776.	1.3	50
133	Supramammillary Nucleus Afferents to the Dentate Gyrus Co-release Glutamate and GABA and Potentiate Granule Cell Output. <i>Cell Reports</i> , 2018, 25, 2704-2715.e4.	2.9	49
134	Calcium signaling and synaptic modulation: Regulation of endocannabinoid-mediated synaptic modulation by calcium. <i>Cell Calcium</i> , 2005, 38, 369-374.	1.1	48
135	Role of pre- and postsynaptic activity in thalamocortical axon branching. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7562-7567.	3.3	48
136	Group I Metabotropic Glutamate Receptor Signaling via G $\pm$ q/G $\pm$ 11 Secures the Induction of Long-Term Potentiation in the Hippocampal Area CA1. <i>Journal of Neuroscience</i> , 2002, 22, 8379-8390.	1.7	47
137	Endocannabinoid-mediated short-term suppression of excitatory synaptic transmission to medium spiny neurons in the striatum. <i>Neuroscience Research</i> , 2006, 54, 159-164.	1.0	47
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